

ABSTRACT

A continuous variable suction system wherein the inner rotor is additionally installed at the inner side of the outer rotor to increase the variable scope of the suction runner length such that the runner length of an optimal suction oil passage per speed and load of an engine can be embodied to enhance the engine's performance. A dual rotor structure is formed to reduce the volume of the inner rotor, thereby decreasing the size of the surge tank, whereby lightness of the suction system can be realized and the manufacturing cost can be also saved by minimizing the size of the suction system.